

SPECIFICATION OF POWERONE MICROSYSTEMS SOLAR GRID TIE STRING INVERTER 1 – 5 kW

Model - POM SGTI	1 kW SGTU-101	1.5 kW SGTU-115	2 kW SGTU-102	3 kW SGTU-103-SM	5KW SGTU-105
Input (DC)					
Max. DC power	1200 W	1800W	2400W	3300W	5500W
Max. DC voltage	500 V	500V	500V	500V	600V
MPPT voltage range	150V-450V	150V-450V	150V-450V	150V-450V	150V-500V
Nominal DC voltage	360V	360V	360V	360V	360V
Min. / start DC voltage	120V/150V	120V/150V	120V/150V	120V/150V	120V/150V
Number of MPPT/s	1	1	1	1	2
Strings per MPPT	1	1	1	1	2
Max. DC power per MPPT	1200W	1800W	2400W	3300W	3000W
Max. input current per MPPT	8A	9A	11A	17A	15A/15A
Output (AC)					
Nominal AC output Power	1000W	1500W	2000W	3000W	5000 W
Nominal AC voltage	230 V	230 V	230V	230V	230 V
AC voltage range	155 V – 270 V	155 V – 270 V	155 V – 270 V	155 V – 270 V	155 V – 270 V
Nominal AC grid frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
AC grid frequency range	± 5 Hz	± 5 Hz	± 5 Hz	± 5 Hz	± 5 Hz
Max. output current	6A	9A	11A	15A	24A
Rated. output current					
THD	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase
Topology	Transformer less	Transformer less	Transformer less	Transformer less	Transformer less
Efficiency					
Efficiency	98.0%	98.0%	98.16%	98.25%	98.18%
Consumption: standby / night	<5W / < 0.2 W	<5W / < 0.2 W	<5W / < 0.2 W	<5W / < 0.2 W	<7W / < 0.2 W
Mechanical Data					
Dimensions (W / L / D) in mm	353/605/182	353/605/182	353/605/182	353/520/182	353/520/182
Weight	12KG	12KG	12KG	18KG	23KG
Environment Data					
Operating temperature range	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C
Noise Level	≤ 35 dB	≤ 35 dB	≤ 35 dB	≤ 35dB	≤ 35dB
Cooling	Natural air cooled	Natural air cooled	Natural air cooled	Natural air cooled	Natural air cooled
Installation: Indoors / Outdoors	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes
Protection rating	IP65	IP65	IP65	IP65	IP65
Features					
LCD display	yes	yes	yes	yes	yes
Communication Interface	RS485	RS485	RS485	RS485	RS485